

Spectrometry of Fast Neutrons by Means of  
the Reaction  ${}^6\text{Li}(n,t){}^4\text{He}$ , by G. Gierts.  
FRENCH, per, Journal Nuclear Energy,  
Pt. AB, No 17, 1963, pp 121-124. 9227156  
AEC SC-T-64-2013

Sci/Nuclear Sci  
May 66

200,491

stable plasma in an inverse pinch-type discharge,  
by P. H. Rebut, A. Torossian.  
FRENCH, per, Journal of Nuclear Energy, Vol V,  
1968, pp 133-144.  
\*NASA TT F-9260

Sci-NS  
Feb 65  
U.S. GOVERNMENT ONLY

Transmission of a Plasma Jet Through a Magnetic  
Barrier, by P. Lecoustey.  
EUROPEAN, per, Journal of Nuclear Energy, Series C,  
Vol 6, No 1, 1964, pp 81-84.  
NTC-71-16258-20I

*hasn't F-10, 156*

Jan 72

Study of the Corrosion of Monocrystals of High Purity  
Aluminum (99.99%) by Water at Elevated Temperature, by  
P. Lelong, J. Berenguel, 24 pp.

FRENCH, per, J Nuclear Materials, Vol I, 1959,  
pp 58-72.

AEC tr-3876

Sci + Nuc Phys  
Feb 60

107198

Evaluation of the Volume of a Point of Fission in  
Uranium, by Y. Quere, F. Nakache, 8 pp.  
FRENCH, per, Journal of Nuclear Materials, Vol I,  
1959, pp 203-209. 9223479  
AEC-Tr-6460

Sci-~~EX~~ Mat & Met  
Oct 64

267,339

Oxidation in Air of Two Refractory Alloys (Nical  
D and Hastalloy X) at 900 and 1100°C), by  
J. Samdier, R. Dominget, 20 pp.

FRENCH, per, Journal of Nuclear Materials,  
Vol III, 1959, pp 213-225. 9091778

AEC-Tr-9235

Sci - Chem  
Sep 62

211,069

Sintering of Uranium Oxide in Hydrogen at 1550°C, by  
A. Bel, R. Delmas, <sup>2</sup>/<sub>5</sub> Francois.

FRENCH, per, J of Nuclear Materials, 1959, pp 259-270

9084548

AEC 44-5083

Sci - Nuc Phys  
Jul 62

204,756

Growth of Alpha-Uranium as the Result of  
Correlative Collisions, by Ulrich Gonser, 10 pp.

FRENCH, per, J Nuclear Materials, Vol II, 1960,  
pp 43-50.

AEC Tr-4522

Sci - Nuc Phys  
Jul 61

157,441



Study of the Self-Diffusion of U in the  
Beta Phase, by Y. Adda, 2 pp.  
FRENCH, per, J. Nuclear Materials, 3,  
1959, pp. 300-301.  
\*NBS TT 70-57596

Sci/chem  
Jul70

Neutron Study of the Crystalline Texture of  
Uranium Bars, by J. Lannesse, P. Meriel, et al.  
5440.

Discussion, par, Journal Nuclear Materials, Vol II,  
1960, pp 69-74. 920764

AEC-Tr-5779

Sci - Nucl Sci  
6 Jun 63

231,864

Determination of the Thermoelectric Power of Uranium and Plutonium, by P. Costa, 12 pp.

FRENCH, per, J Nuclear Materials, Vol II, 1960, pp 75-80.

AEC Tr-4364

Sci - Nuc Phys  
Jul 61

157,440

Influence of the Crystal Dimensions on the Oxidation  
Kinetics of  $UO_2$ , by B. Balbooch, C. Piekarski, P.  
Perio, 10 pp.

FRENCH, per, J Nuclear Materials, Vol III, No 1,  
1961, pp 60-66. 9081350

ANC HW-Tr-26  
07C 61-26005  
170.216

Sci - Nuc Phys  
Oct 61

Micrographic Observations of a Mg-0.65wt.Zr  
Alloy Heated in Hydrogen, by F. Lelong.  
EUROPEAN, per, Journal of Nuclear Materials,  
Vol 3, Feb 1961, pp 222-234.  
EE Trans 504

Jan 72

Study of Irradiation Disorder of the  $U_2Mo$  Phase,  
by J. Bloch, J. Doulat, J. Blin, 6 pp.

FRENCH, per, Journal of Nuclear Materials,  
Vol III, 1961, pp 327-330.

AEC-tr-5325

So1

Jan 63

list 74

218,841

Gebhardt, E., Segezzi, H.-D., and Durrschnabel, W.  
STUDY OF THE ZIRCONIUM-OXYGEN SYSTEM.  
PT. I. THE ELECTRICAL RESISTANCE OF OXYGEN-BEARING ZIRCONIUM. [1963] 15p.  
Order from ATS \$16.40

ATS-00Q72G

Trans. of [Journal of] Nucl[ear] Mater[ials]  
(Netherlands) 1961, v. 4, no. 3, p. 241-254.

DESCRIPTORS: \*Zirconium compounds, Oxygen,  
Resistance (Electrical), Reactor materials.

(Nuclear Physics--Nuclear Engineering, TT, v. 10,  
no. 12)

63-22946

- I. Gebhardt, E.
- II. Segezzi, H.-D.
- III. Durrschnabel, W.
- IV. ATS-00Q72G
- V. Associated Technical Services, Inc.,  
East Orange, N. J.

AEC-Tr-6413  
(9223510)

Office of Technical Services

Investigations of the Zirconium - Oxygen System. II.  
Investigations of the Kinetics of the Reaction Between  
Zirconium and Oxygen, and of the Constitution of the  
Zirconium - Oxygen System, by Erich Gebhardt,  
Hans-Dieter Seghezai, Wolfgang Duerschmabel, 20 pp.

*1966*  
GERMAN, per, J Nuclear Materials, Vol IV, Aug-Sep  
1961, pp 255-268.

AEC Tr-5060

Sci - Nuc Phys  
Jun 62  
List 60

*197,817*



III. The Recrystallization Behavior of Zirconium  
Alloys, by Erich Gebhardt, H. D. Seghezzi, et al, 4 pp.  
French, per, Journal of Nuclear Materials, Vol IV,  
No 3, 1961, PP 269-271. 9223551

MAEC-Tr-6416

S.1 - Mat & Met

Sep 63

Determination of the Glide Elements of Hexagonal Metals  
Using the Asterism in Laue Photographs and Application  
to a Study of Beryllium Deformation at High Temperature,  
by P. Bastien, P. Pointu, 14 pp.

FRENCH, per, Journal of Nuclear Materials, Vol. V,  
No 1, 1962, pp 101-108. 9089573

AEC Tr-5138

Sci - Phys  
Aug 62

207,502

Study of the Self-Diffusion of U. in the  
Alpha-Phase, by Y. Adda, 5 pp.  
FRENCH, per, J. Nuclear Materials, 6,  
1962, pp. 130-134.  
\*NBS TT 70-57613

Sci/chem  
Jul 70

Lowering of the Self-Diffusion Coefficients of U in the Gamma-Phase by Additions of Mo, Zr, or Nb, by Y. Adda, 2pp  
FRENCH, per, J. Nuclear Materials, 6,  
1962, pp. 135-136.  
\*NBS TT 70-57612

Sci/chem  
Jul 70

Types of Deformation of Beryllium at High Temperature  
and Recrystallization After Twinning, by P. Bastien, P.  
Pointu.

RESEARCH, per, J Nuclear Materials, 1962, pp 153-155. 9093448

AEC Tr-5104

Sci - Chem  
Jul 62

204, 712

Experimental Study of the Recrystallization  
of Belgian Uranium, by H. Nassau, 16 pp.

FRENCH, per, Journal of Nuclear Materials,  
Vol V, No 3, 1962, pp 287-300. -9093544

5066949

AEC Tr-5301

Sci - Phys  
Oct 62

212,674

Study of the Porous Structure of Nuclear Graphites  
by Means of Mercury Porosimetry, by M. Doquet, 17 pp.

FRENCH, par, Journal of Nuclear Materials, Vol VI,  
No 1, 1962, pp 96-106. 9209166

AEC-HP-TT-992

L A T R 65-23

Sci - Nucl Sci

Jul 63

235,670

Nature of the Transformation of  
Uranium Near Equilibrium, by G. Donze,  
6 pp.

FRENCH, per, Journal of Nuclear  
Materials, Vol V, No 1, 1962,  
pp 150-152. 9231978  
AEC MLH-1302-

Sci-N. Sci  
Feb 66

296,082



Effect of Neutron Irradiation on Uranium-Iron  
Alloys with Low Iron Content, by J. Blach,  
18 pp.

FRANCO, per, Journal Nuclear Materials, Vol VI  
No 6, 1962, pp 203-212. 9206079.

AEC/ISI Tr 43

Sci - Mech Sci

2 10 913

Sci 55

JOURNAL OF NUCLEAR MATERIALS

1962 Vol. P33A-341

66-13562 <\*>

1963 Vol. P301-320

70-22083 <\*>

ORDER FROM NTC

Dislocation Reaction in  $\alpha$  Uranium, by J. Letourbe,  
3 pp.

FRENCH, JER, Journal Nuclear Materials, Vol VI,  
1962, pp 338-341. 9205035.

APC 22 5722

Sci - Nucl Sci

May 63

236,911

Study by Electron Microscopy of Uranium  
Containing Krypton, by J. Letaurto, G. Dubec,  
4 pp.

FRENCH, par, Journal Nuclear Materials, Vol VI,  
1962, pp 342-345. 920905.

ABC ID: 5717

Sci - Natl Sci

May 63

230,912

A New Nuclear Material: Sintered Magnesium Oxide,  
by M. Salesse, R. Caillat, et al, 4 pp

FRENCH, per, Journal of Nuclear Materials, Vol VIII,  
No 1, 1963, pp 39-40. 92/6870

~~\*UNCLASSIFIED - 12-1-1969~~

AEC-NP-1070

Sci - Nat & Met

HEC 31.4-T-1-734  
R.F. 1/15/63

Aug 63

DT 5522

Preparation, Fabrication and Metallurgical Properties of  
Composite Materials of the Mg/MgO Type, by  
J. Herenguel, 10 pp.  
FRENCH, per, Journal of Nuclear Materials, Vol VIII,  
No 1, 1963, pp 49-59. 9220582  
AERE-Harwell-Tr-976

Sci-Mat & Met  
Apr 64

254,668

Contribution To the Study of the Escape of Fission Gases  
From Irradiated Sintered Uranium Oxide, by J. L. Berry,  
R. Darras, et al, 27 pp.  
FRENCH, per, Journal of Nuclear Materials, Vol VIII, 1963,  
pp 102-115.

AEC-Tr-6242

Sci - Chem  
Feb 64

2250, 542

Plastic Deformation and Rupture of Uranium Single Crystals  
in Tension At -196 degreesC, by A. Lemogne, P. Lacombe,  
8 pp.  
RUSSIAN, per, J. Nucl. Mater., Vol VIII, 1963, pp 116-125.

AEC-Tr-6184

Sci - M/M  
Feb 64

250, 535



collection of Helium in Disordered and  
parts of Beryllium Oxide Irradiated  
with Neutrons, by H. Salasse, R. Gaillat,  
et al, 6 pp.  
FITCH, per, Journal of Nuclear Materials,  
Vol VIII, 1963, pp 260-270.  
AEC-Tr-6451

Sci-44/11  
Apr 65

277,006

Purification of Uranium by Electron Bombardment Floating  
Zone Melting, by Jacques Pascal, Paul Lacombe, 21 pp.  
FRENCH, per, Journal of Nuclear Materials, Vol IX, 1963,  
pp 155-169.

AEC-Tr-6243

Sci - NS  
Feb 64

250, 543

Effects of Neutron Irradiation Upon the Thermal  
Conductivity of Nuclear Graphites, by M. Bocquet,  
G. Micaud, 12 pp.  
FRENCH, per, Journal of Nuclear Materials, Vol X,  
No 3, 1963, pp 215-223. 9224370  
AEC-NP-Tr-1141

Sci-Nucl Sci  
Aug 64

265,625

Study of Uranium and Plutonium Nitrides and of  
Their Solid Solutions, by F. Anselin.  
FRENCH, per, Journal of Nuclear Materials,  
Vol 10, No 4, 1963, pp 301-320.  
\*AEC ORNL Tr-1728

Sci - Nuclear Science  
Aug 67

Hydrogenation of ~~mm~~ U - UC Mixtures, by G. Baudin,  
J. Besson, et al, 13 pp.  
FRENCH, per, Journal of Nuclear Materials, Vol X,  
1963, pp 173-181. 9223538  
AEC-ORNL-Tr-123

Sci-Mat & Met  
Sep 64

265,854

Study of Uranium and Plutonium Nitrides and  
Their Solid Solutions, by F. Anselin, 40 pp.  
FRENCH, per, J. Nucl. Mater., Vol 10, 1963,  
pp 301-320. P911354667  
AEC ORNL-Tr-1728

Sci/Nuclear Science  
Nov 67

344,250

Electron-Microscopic Study of Structural Defects  
in Fritted Irradiated Beryllium Oxide, by A. Bisson,  
10 pp.  
FRENCH, per, Journal of Nuclear Materials, Vol X,  
No 4, 1963, pp 321-328. 9224865  
AEC-Tr-6441

Sci-Mat & Met  
Oct 64

268,512

$\text{CaF}_2$  As a Model Substance for Diffusion  
Processes in  $\text{UO}_2$ , by H. Matzke, 7 pp.  
FRENCH, per. Journal Nuclear Materials,  
Vol XI, 1964, pp 344-347. 9233100  
AEC NP-TR-1381

Sci - Nucl Sci  
Jul 66

305,604



Metallography of Plutonium, by D. Sprick.  
FRENCH, per, Journal of Nuclear Materials,  
Vol XII, pp 94-112, May/June 1964 92299  
AEC BNWL-Tr-2

Sci-NS&T  
Oct 65

290,073

Modes of Deformation of Alpha Plutonium, by B. Spriet,  
14 pp.

FRENCH, per, Journal of Nuclear Materials, Vol XII,  
1964, pp 159-166. 9226673

AEC-UCRL-Tr-1150 (L)

*ACC-LA-TR-64-28*

*ACC-LA-TR-64-28*  
*10-22-64*

Sci-M/M  
Feb 65

274,248

Polygonization of Very Pure Uranium Between  
150° and 300°C, by G. Clottes, J.C. Jousset,  
et al. 15 pp.  
FRENCH, per, Journal of Nucl. Mater., Vol 12,  
1964, pp 340-344.  
AEC-tr-6560

Sci/M&M  
Jun 66

301,099

Effect of Thermal Cycling on the  
Transformation Temperature of Plutonium,  
by D. Spriet.  
FRENCH, per, Journal of Nuclear Materials,  
Vol 13, No 1, pp 13-22, 1964 9230196  
AEC-BNWL-Tr-4

Sci-Phys  
Nov 65

291,635

"Curvilinear" Tracks of diffuse  $\alpha$ -rays  
due to Neutrons of BeO Monocrystals,  
by S. Belbeoch, J. Rodot, et al.  
FRANCO, per, Journal of Nuclear  
Materials, Vol 15, 1964, pp 234-237.  
AEC- AT-Tr-91

Sci/Physics  
Sep 65

289,315

Determination of the Interstitial Distribution of Oxygen Atoms in Monocrystalline Zirconium Films by Means of Electron Diffraction, by S. Steeb, P. Mitsch.

GERMAN, per, Journal of Nuclear Materials, Vol XV, No 1, 1965, pp 81-87. 9231658  
AEC-ANL-Tr-232

Sci - NS, Phys  
Jan 66

294,285

Determination of the Principal Glide Plane  
in  $\alpha$ -Fluorinium, by B. Spriet.  
FRENCH, per, Journal of Nuclear Materials,  
Vol XV, 1965, pp 113-116. 9230543  
AEC-ANL-Tr-210

Sci - Eng  
Jan 66

294,201

Purification of Plutonium by Zone Melting  
and Electro-Diffusion, by B. Spriet.

FRENCH, per, Journal of Nuclear  
Materials, Vol XV, pp 220, 1965

AEC ANL-Tr-211

9229922

17 220-030

AE 2 1: 220-030

Sci-Phys  
Oct 65

290,071



Kinetics of the  $\alpha \rightarrow \beta$  Transformation of Plutonium  
in the Vicinity of Equilibrium, by B. Spriet,  
18 pp.

FRENCH, per, Journal Nuclear Materials, Vol XVI,  
1965, pp 59-67. 9231672

BNWL Tr-8

AEC MM-1303

297,269

Sci - Physics

Mar 66

Investigations in the Niobium-Nitrogen System:  
I. Changes in Properties of Niobium by Dissolved  
Nitrogen, by E. Gebhardt, 27 pp.  
GERMAN, per, J. Nucl Materials, Vol 18, 1966,  
pp 119-133.  
AEC/WAPD-Tr-132-70

Sci/Nucl  
Nov 70

Investigations in the Niobium-Nitrogen System:  
II. Precipitation Processes in Niobium-Nitrogen  
Solid Solutions, by E. Gebhardt, W. Durrschnabel,  
25 pp.  
GERMAN, per, J Nucl Material, Vol 18, 1966,  
pp 134-148.  
AEC/WAPD-Tr-133-70

Sci/Nucl  
Oct 70

Investigation in the Niobium-Nitrogen System: III.  
Degassing Kinetics of Niobium-Nitrogen Solid  
Solution in a High Vacuum, by E. Gebhardt,  
H. Durrnschabel, 21 pp.  
GERMAN, per, J Nucl Material, Vol. 18, 1966,  
pp 149-160.  
AEC/WAPD-Tr-134-70

Sci/Nucl  
Oct 70

The High-Temperature Embrittlement of  
Austenitic Nickel-Chromium Steels and  
Nickel-Base Alloys on Neutron Irradiation,  
by H. Bohn.

GERMAN, par, J. Nuclear Mat, Vol 19, No  
Apr 1966, pp 59-69.

BISI 4985

314,513

Sci - Behavioral and Social Sciences

Discontinuous Migration of Joints in the Course  
of Extra Grain Growth in  $\alpha$  - Uranium, by  
M. Dupuy.

FRENCH, per, Jour. Nucl. Materials, Vol 19, 1966  
pp 103-105.

AEC Dounreay tr 269

Sci/Nuclear Sci  
Feb 67

218,521

Influence of the Aluminum Content and the  
Temperature on the Elastic and Plastic  
Properties of the Iron-Aluminum Solid  
Solution, by P. Mouturat, J. Molinet, M.  
Romeggio, G. Sainfort, G. Cabane, 21 pp.  
FRENCH, per, Journal of Nuclear Materials,  
Vol 19, 1966, pp 234-247. P911181767  
AEC ORNL Tr-1595

324,418

Sci - Materials  
June 67

Electron Microscope Observations of Thin Films  
of Zirconium Oxide, Obtained by Oxidation of  
Zirconium, by G. Beranger, F. Duffaut, and  
B. de. Gelas.

ENGLISH, per, Journal of Nuclear Materials,  
Vol 19, 1966, pp 290-300.  
NTC 71-14413-20L

Feb 72



Comments on the Pre-alpha yields beta Trans-  
formation in Protactinium, by B. Spriet,  
FRENCH, per, Journal of Nuclear Materials,  
Vol XIX, 1966, pp 343-344.  
AEC LA-tr-66-48

Sci-Materials  
Nov 66

313,679

The Influence of Purity on the Kinetics of  
the alpha reversible beta Transformation in  
Plutonium, by B. Spriet,  
FRUNCI, per, Journal of Nuclear Materials,  
Vol XIX, 1966, pp 348-350. P011078466  
AEC LA-tr-66-53

Sci-Materials  
Nov 66

313,678

Electron Microscope Observations on Thin Films  
of Zirconium Oxide, Obtained by Oxidation of  
Zirconium, by G. Beranger, F. Duffaut, 21 pp.  
FRENCH, per, J. Nucl. Mater, Vol 19, 1966.  
AEC/WAPD-Tr-109-69

Sci/Nucl

Determination of the Principal Coefficients of  
Thermal Expansion of alpha Zr., by J. C. Couterne,  
G. Cizeron.

FRENCH, per, Journal of Nuclear Materials, Vol 20,  
1966, pp 75-82.

NTC 71-14001-18J

Feb 72

Dependence of the Irradiation Behavior of a  
Hardenable Ni-Cr-Fe Alloy of the State of  
Precipitation, By H. Boehm, W. Dienst, H.  
Hauck, H. J. Laue, 9 pp.  
GERMAN, per, Nuclear Materials, Vol 20, No 1,  
1966, pp 87-93. P911146067  
AEC ANL Tr-421

324,431

Sci - Nuclear Science  
May 67

Influence of Increasing Content of Copper on the  
Formation of an Intermediate Layer at a Metal-Oxide  
Interface During Oxidation of Zr-Cu Alloys at 750° C.,  
by B. De Gelas.

FRENCH, per, J Nucl Mater., No 20, 1966, pp 337-340.

\*NTIS TT 72-53173

Aug 72

Thermal Diffusion in the  $UO_2$ - $CeO_2$  System, by H.  
Beisswenger, M. Bober, G. Schumacher, 30 pp.  
GERMAN, per, Journal Nuclear Material, Vol 21,  
1967, pp 38-52. Institute of Neutron Physics and  
Reactor Technique, Nuclear Research Center,  
Karlsruhe, Germany. P911192067  
AEC WAPD Tr-53

327,902

Sci - Physics  
Jun 67

Radiographic Investigation of the  
-Transformation of Pure  
Uranium, by J. Eisenblatter, G.  
Haase, F. Granzer.  
GERMAN, per, Journal of Nuclear  
Materials, Vol 21, 1967, pp 53-60.  
AEC ANL-Tr-601

Sci-Nuc Sci  
Aug 68

357,484



Diffusion in an Electric Field of Oxygen in  $UO_2$   
Between 900 and 1000°C, by W. Dornelas. 5 pp.  
FRENCH, per, J. Nuclear Materials, Vol 21,  
1967, pp 100-104.  
\*NBS TT 70-57665

Sci-Chem  
Jul 70

The Effect of Radiation on the Corrosion of  
Zircaloy 2 in Aqueous Solutions at High  
Temperatures, by J. Blanchet & H. Coriou.  
FRENCH, per, Jour. of Nuclear Materials, No.  
22, 1967, pp 55-67. P911230268-V  
AEC-WAPD-Tr-87

Sci/Chem  
Sept 68

361,642

Activation Energies and Mechanisms of Deformation  
During Creep of Single and Polycrystalline  
Uranium Between 150 and 770°C, by P. Frenier.

16 pp.

FRENCH, per, J. Nuclear Materials, Vol 22, 1967,  
pp 241-256.

\*NBS TT 70-57668

Sci-Mat

Jul 70

Oxidation of Beta-Zr at Low Pressures; the Surface  
Effect Presented by Zr-O Alloys, by L. Renucci.  
FRENCH, per, J. Nuclear Mat, Vol 23, 1967,

pp 79-87.

\*Nat Bur Stand TT 70-57695

Sci-Phys  
Jul 70

Chemical Diffusion in the Hexagonal Phase of the  
Zr-Pu System, by J. C. Lauthier. 4 pp.  
FRENCH, per, J. Nuclear Materials, Vol 23, 1967,  
pp 111-114.  
\*NBS TT 70-57670

Sci-Chem  
Jul 70

The Solubility of Plutonium in Iron, by  
G. Moreau. 4 pp.  
FRENCH, per, J. Nuclear Materials, Vol 24, 1967,  
pp 121-124.  
\*NBS TT 70-57583

Sci-Phys  
Jul 70

The Stress Rupture and Creep Properties of  
Austenitic Chromium Nickel Steels in Presence  
of Sodium, by H. Bohm, H. Schneider.  
GERMAN, per, Jnl. Nuclear Materials, Vol 24,  
1967, pp 188-197.  
NLL Ref: 9022.4 (68/11)

Sci-Phys  
Jan 69

372,597

The Stress-Rupture and Creep Properties of  
Austenitic Chromium-Nickel Steels in Presence  
of Sodium, by H. Bohm & H. Schneider.  
GERMAN, per, J. Nuclear Mat., Vol 24, Jul 1967,  
pp 188-197.  
\*RLSI 6346

Sci/Mat  
May 68



## JOURNAL OF NUCLEAR MATERIALS

1968 V25 P24-37	70-10278-07D <=>
1968 V25 P347-349	ANL-TRANS-666 <=>
1968 V28 P233-234	LA-4230-TR <=>
1968 V28 P233	70-12429-10J <=>
1969 V30 P222-233	7544 <BISI>
1969 V30 P324-326	70-10869-11F <=>
1969 V33 P40-51	ANL-TR-803 <=>

ORDER FROM NTC

Corrosion of Low Alloy Steels in Carbon  
Dioxide at Medium Temperatures, by  
H. Lories.

FRENCH, per, Journal Nuclear Materials,  
No 25, 1968, pp 144-159.

NLL Ref: 3774.5 (1784)

Sci-Mat  
May 69

380,728

Swelling of Uranium Alloys Under Irradiation, by  
J. Lehmann, et al.  
GERMAN, per, J. of Nucl Materials, Vol 26,  
May 1968, pp 238-240.  
CEGD-Tr 4981

Sci/Phys  
Jun 69

384,509

4(AEC-tr-7236) 5IMPORTANT ROLE OF FISSION  
PRODUCTS OF LARGE ATOMIC RADIUS: CESIUM, STRONTIUM,  
BARIUM, CERIUM, AND NEODYMIUM IN SWELLING OF URA-  
NIUM. 6Blanchard, P. 7810Translated from 10J. Nucl. Mater.;  
26: 241-5(1968). 207p. 24Dep. NTIS.

26metallurgy; translations 2711F

28MN-25 29P NSA

Diffusion of U in Al at Infinite Dilution, by  
J. J. Blechet. 2 pp.  
FRENCH, per, J. Nuclear Materials, Vol 27, 1968,  
pp 112-113.  
\*NBS TT 70-57639

Sci-Chem  
Jul 70

Diffusion and Solubility of Pu in Al, by  
N. Housseau. 1 pp.  
FRENCH, per, J. Nuclear Materials, Vol 27, 1968,  
p 114.  
\*NBS TT 70-57672

Sci-Chem  
Jul 70

Study of Defect Production of Beryllium by Irradiation  
at Low Temperature, by J. C. Nicoud.

FRENCH, per, J Nuclear Mat., Vol 27, 1968, pp 147-165.

\*NTIS/NBS TT 71-55321

Available NBS Only

July 71

Study of the Swelling of Uranium Alloys Under  
Irradiation by J. Lehmann.  
GERMAN, per, J. of Nucl Materials, Vol 27, 1968,  
pp 285-309.  
CEGE-Tr 5125

*AEC/RNWL/TR-46-70*

Sci-Phys  
Jun 69

385-068



Contribution to the Study of Corrosion by Carbon Dioxide  
- 1. Oxidation of Zr-Cu Alloys, by J. P. Guerlet.

FRENCH, per, J. Nuclear Mater., Vol 28, 1968,  
pp 152-164.

\*NTIS/NBS TT 71-55324

Available NBS Only

July 71

Contribution to the Study of Corrosion by Carbon Dioxide.  
II. Oxidation of Zr-Nb Alloys, by J. P. Guerlet.

FRENCH, per, J. Nucl Mat., Vol 28, 1968, pp 165-176.

\*NTIS/NBS TR 71-55325

Available NBS Only

July 71

Diffusion and Solubility of Plutonium in Nickel, by  
J. J. Blechet.

FRENCH, per, J Nuclear Mater, Vol 28, 1968, pp 177-184.

\*NBS TT 71-55264

Available NBS Only

June 71

Effect of O on the (Isomorphous) UC Phase-  
Existence Domain, by M. Boncoeur. 3 pp.  
FRENCH, per, J. Nucl Mater, Vol 28, 1968,  
pp 233-234.  
AEC-LA-4230-tr

Sci-Chem  
Oct 70

4(ORNL-tr-2440) 5ANNEALING OF METASTABLE  
ORTHORHOMBIC PHASES OF URANIUM-TITANIUM ALLOYS  
CONTAINING 4.8 AND 9.5 PERCENT TITANIUM. 6Bashwitz, R.;  
Colombie, M.; Foure, M. 7810Translated by R. Gregg Mansfield  
(Oak Ridge National Lab., Tenn.), from 15J. Nucl. Mater.; 28: 246-  
56(1968). 12014p. 24Dep. NTIS.

26metallurgy; translations 2711F

28MN-25 29P NSA

New Alloys of Zr Resistant to Oxidation. The Zr-Cu  
Alloys, by R. Darras.  
FRENCH, rpt, J. Nucl Mater., Vol 28, 1968, pp 257-270.  
\*NTIS/NBS TT 71-55326  
Available NBS Only

July 71

1782 (LA-4292-TR) 5 THE ELASTIC PROPERTIES OF  
PLUTONIUM IN THE BCC EPSILON PHASE. 5 Cornet, J. A.;  
Bouchet, J. M. 16 Translated by Raymond E. Tate (Los Alamos  
Scientific Lab., N. Mex.), from 15 J. Nucl. Mater.; 28: 303-10(1968).  
208p. 24 Dep. CFSTI.

26 chemistry (inorganic); translations 2107B

28 STD-4 29 P NSA

Influence of Deformation and Fracture  
Characteristics on High Temperature  
Embrittlement After Irradiation of Some  
Face-Centered Cubic Metals and Alloys.

By G. Sainfort, et al.

FRENCH, per, J. Nuclear Mat. Vol. 30,  
1969, pp. 222-233.

BISI 7544

Sci/phys  
Dec 69

398,867



Hydride Orientation in Zircaloy Tubes as a Function  
of Deformation, Texture, and Stresses, by  
E. Schelzke, 26 pp.  
GERMAN, per, J. Nucl Mater., Vol 30, 1969, pp 324-336.  
AEC/WAPD-Tr-123-69

Sci/Nucl  
Dec 69

306 037

Dislocations in Cubic Uranium Oxides, by H. Blank,  
21 pp.  
GERMAN, per, J Nucl Material, Vol 31, 1969, pp 1-12.  
AEC/WAPD-Tr-131-70

Sci/Nucl  
Oct 70